



Grp 1645

PATENT  
Attorney Docket 047763-5012-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: **Graham Vesey et al.** )  
Application No. **09/424,048** )  
Filed: **February 24, 2000** )  
For: **Antibodies to *Cryptosporidium*** )

Group Art Unit: **1645**  
Examiner: **Iesha Fields**

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**MAY 10 2002**  
**TECH CENTER 1600/2900**

**AMENDMENT TRANSMITTAL FORM**

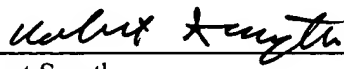
- Transmitted herewith is an Amendment Under 37 C.F.R. 1.111 responding to the Office Action dated December 5, 2001 (Paper No. 13).
- Extension of Time: The proceedings herein are for a patent application and the provisions of 37 C.F.R. 1.136(a) apply. Applicants petition for a two-month extension of time from March 5, 2002 to May 5, 2002. This response is being filed under the next business day rule on Monday, May 6, 2002 as the due date for responding fell on a weekend (Sunday, May 5, 2002). If the Applicants have inadvertently overlooked the need for an additional petition and fee, please consider this a petition therefor. The Commissioner is hereby authorized to charge any additional fees which may be required, including fees due under 37 C.F.R. 1.16 and 1.17, or credit any overpayment to Deposit Account 50-0310.
- Fee Calculation (37 C.F.R. 1.16):

| CLAIMS AS AMENDED                              |                  |       |                 |       |                |            |
|--|------------------|-------|-----------------|-------|----------------|------------|
|  | Claims Remaining |       | Previously Paid | Extra | at Rate of     | Total Fees |
| Total Claims                                   | 36               | minus | 20              | 16    | at \$18 each = | 288.00     |
| Independent Claims                             | 7                | minus | 3               | 4     | at \$84 each = | 336.00     |
| First presentation of Multiple dependent claim |                  |       |                 |       | \$280.00       | 00.00      |
| SUB-TOTAL =                                    |                  |       |                 |       |                | 624.00     |
| Reduction by 1/2 for filing by a small entity  |                  |       |                 |       |                |            |
| TOTAL FEE =                                    |                  |       |                 |       |                | \$624.00   |

- Fee Payment: Please charge **\$1,024.00** to Deposit Account 50-0310 for payment of the two-month extension of time fee (\$400.00), the additional claims fee (\$288.00) and the additional independent claims fee (\$336.00). The Commissioner is hereby authorized to charge any additional fees which may be required, including fees due under 37 C.F.R. 1.16 and 1.17, or credit any overpayment to Deposit Account 50-0310.
- Constructive Petition: **Except** for issue fees payable under 37 C.F.R. 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. 1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account 50-0310. This paragraph is intended to be a **constructive petition for extension of time** in accordance with 37 C.F.R. 1.136(a)(3).

Dated: **May 6, 2002**  
Morgan, Lewis & Bockius LLP  
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1111 Pennsylvania Avenue, N.W.  
Washington, D.C. 20004  
202-739-3000

Respectfully submitted  
**Morgan, Lewis & Bockius LLP**

  
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Robert Smyth  
Registration No. 50,801



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AMENDMENT UNDER 37 C.F.R. 1.111

This amendment is filed in response to the Office Action dated December 5, 2001 (Paper No. 13). The period for response has been extended from March 5, 2002 to May 5, 2002 by the accompanying two-month extension of time and is being filed under the next business day rule as the due date for responding fell on a weekend (Sunday, May 5, 2002). Please amend the above-identified application as follows:

In the Claims:

Please amend claims 1, 9, 13 & 22 as follows:

1. (Once Amended) A method of producing isolated IgG1 subclass antibodies reactive to the surface of *Cryptosporidium* oocysts, the method comprising:
- (a) pretreating *Cryptosporidium* oocysts with a reagent so as to remove the surface layer of the oocysts to form an oocysts antigen preparation;
  - (b) separating the oocysts from the oocyst antigen preparation so as to obtain a separated oocyst antigen preparation free from sporozoite antigens and capable of eliciting a detectable IgG1 immune response in an animal to the surface of the oocyst;
  - (c) immunizing an animal with the separated oocyst antigen preparation so as to elicit an IgG1 response in the animal; and
  - (d) obtaining from the animal IgG1 antibodies reactive to the surface of *Cryptosporidium* oocysts.

9. (Once Amended) A method of producing isolated IgG1 subclass antibodies reactive to the surface of *Cryptosporidium* oocysts, the method comprising:
- (a) separating at least a portion of the *Cryptosporidium* oocysts wall from the internal sporozoites to form an oocyst-wall preparation free from sporozoite antigens;

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01 FC:102 336.00 CH  
02 FC:103 288.00 CH  
03 FC:116 400.00 CH